CLAIMS

1. (Previously Presented) A wireless communication system comprising:

a first wireless mobile station; and

a second wireless mobile station coupled with the first wireless mobile station through a wireless communication network,

wherein the second wireless mobile station transmits location information to the first wireless mobile station in response to a request of the first wireless mobile station.

2. (Previously Presented) The wireless communication system of claim 1, wherein the second wireless mobile station comprises a receiver for receiving a satellite signal from a satellite.

3. (Previously Presented) The wireless communication system of claim 2, wherein the second wireless mobile station analyzes the satellite signal in response to the request of the first wireless mobile station, determines the location information and provides the determined location information to the first wireless mobile station.

4. (Previously Presented) The wireless communication system of claim 1, wherein the signal transmitted and received between the second wireless mobile station and the first wireless mobile station satisfies IEEE 802.11 specification, wherein a request for the location information is specified in a frame control of a frame header or a medium access control (MAC) frame body header of a frame body of a packet transmitted between the first wireless mobile station and the second wireless mobile station.

5. (Previously Presented) The wireless communication system of claim 1, wherein the second wireless mobile station comprises a memory for storing the location information.

6. (Previously Presented) The wireless communication system of claim 5, wherein the second wireless mobile station provides the first wireless mobile station with the location information stored in the memory in response to the request of the first wireless mobile station.

7. (Previously Presented) The wireless communication system of claim 1, further comprising:

a base station for receiving a satellite signal from a satellite, determining location information according to the received satellite signal, and transmitting the determined location information to the second wireless mobile station.

8. (Previously Presented) The wireless communication system of claim 7, wherein the second wireless mobile station provides the first wireless mobile station with the location information received from the base station in response to the request of the first wireless mobile station.

9. (Previously Presented) A method of determining location information of a first wireless mobile station, wherein the first wireless mobile station is coupled with a second wireless mobile station through a wireless communication network, the method comprising:

requesting location information from the second wireless mobile station;

receiving at the first wireless mobile station the location information from the second wireless mobile station;

estimating a distance between the first wireless mobile station and the second wireless mobile station; and

determining a location from the received location information and the estimated distance.

10. (Previously Presented) The method of claim 9, further comprising receiving a satellite signal from a satellite at a receiver of the second wireless mobile station.

11. (Previously Presented) The method of claim 9, requesting location information comprises:

determining whether the receiver can access the satellite signal; and

requesting the second wireless mobile station to transmit the location information upon determining that the receiver cannot access the satellite signal.

12. (Previously Presented) The method of claim 10, further comprising:

requesting the second wireless mobile station to transmit information; and

receiving the information from the second wireless mobile station.

13. (Previously Presented) The method of claim 12, wherein a signal including the information between the second wireless mobile station and the first wireless mobile station satisfies IEEE 802.11 specification and is used in estimating the distance between the first wireless mobile station and the second wireless mobile station.

14-15. (Cancelled)

16. (Previously Presented) A method in which a second wireless mobile station communicates with a first wireless mobile station through a wireless communication network to provide location information to the first wireless mobile station, the second wireless mobile station being provided with a memory storing location information, the method comprising:

receiving a location information request from the first wireless mobile station;

reading location information stored in the memory of the second wireless mobile station; and

transmitting the read location information to the first wireless mobile station.